\*Array and its functions\*

1) **Array:**

Array is collection of data of different data types. JavaScript arrays are used to store multiple values in a single variable.

2) **Creation of array:**

**Ex=>**let colors=["Red","Blue","Green","Orange","White","Black",1,2,3];

console.log(colors);

We can also create an array with different data types .

Ex=> let colors=["Red","Blue","Green","Orange","White","Black",1,2,3,true,false];

3) **Access array elements:**

For accesing array elements we use index of that particular element in square bracket.

Ex=>const fruits=["Apple","Mango",”Chiku”];

Console.log(fruits[1]);

**4)Finding the length of the array:**

The lengthproperty sets or returns the number of elements in an array.

Ex=> let colors=["Red","Blue","Green","Orange","White","Black",1,2,3];

console.log(colors.length);

**5)String Split:**

The split() function is used to split a string into an array of substrings, and returns the new array.

Ex=>let a=”Hello how are you?”

Console.log(a.split(“ “));

1. **Adding items to array:**

If we want to add or delete item from the array at that time we use ‘push’ and ‘pop’ function. By using push and pop function we can insert or delete new item at the end of array.

Ex=> const fruits=["Apple","Mango"];

console.log(fruits);

fruits.push("Pineapple");

fruits.push("Watermelon");

fruits.push("chiku");

fruits.pop("");

If we want to insert or delete elements at the beginning of array we use ‘unshift’ and ‘shift’ method

Ex=> fruits.unshift("Banana");

fruits.shift("Orange");

1. **IndexOf() method**:

Indexof method is used to find index of particular element from array.

Ex=> let colors=["Red","Blue","Green","Orange","White","Black",1,2,3];

console.log("Index of given color:",colors.indexOf("White"));

**8)filter() method:**

Ex=> const numbers=[10,20,30,40,50,60,70];

console.log(numbers.filter((roll\_no)=>(roll\_no>30)));

Return an array of all the values in the number array greater than 30

Output:40,50,60,70

**9)find() method:**

Find method is useto find element from given array.

Ex=>const numbers=[10,20,30,40,50,60,70];

console.log("Array Find function=>",numbers.find((roll\_no)=>roll\_no==40));

**10) findIndex() method:**

This method is used to find index of given element from an array.

Ex=>const numbers=[10,20,30,40,50,60,70];

console.log("Find index of=>",numbers.findIndex((roll\_no)=>roll\_no==60))

output:5

**11)splice() method**:

Splice() method is use to add items in an array

const fruits=["Apple","Mango",”chiku”,”Pineapple”];

fruits.splice(2,0,”lemon”);

output= Apple, Mango,Lemon, chiku, Pineapple

**12)join() method**:

The join() returns array as a string. The elements are separated by comma.

Ex=> const numbers=[10,20,30,40,50,60,70];

console.log(numbers.join(","));